

## **COMPLEX PROJECTS DEVELOPMENT PROBLEMS**

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Our complex projects development is based in NTU "KhPI" in 2009 based on the general background of innovative projects concept in order to implement the system of competences into educational process. To the general problem issues of the master class in 2019 «Definition and formation of complex competence development intellectual property objects» [1] include: updating identification and analysis methods, devices and equipment for research within integrated innovation projects, which is the main factor determining the scope and type of intellectual property objects for realization of the experimental results obtained taking into account the algorithms determined by us. When implementing our development, the practical results in the educational process are obtained as the promotion of the intellectual and organizational capabilities of students who form the skills of independent, organizational and collective activities is competence, communication skills, creativity and leadership personality, which generally contribute to the intensive development of scientific and technical creativity of graduates.

Reserves of cooperation for the further identification and formation intellectual property objects of complex competency development are connected with the introduction into the educational process of partner interuniversity relations which enable to obtain positive results: types growth, quality and quantity of intellectual innovative products in higher educational establishments; quality and quantity of innovations developed and implemented in practice in the field of new design and technological solutions. Examples of innovative complex projects are developed based on directions and methods of design technology improvement, taking into account the conducted complex experiment and calculations in the course of performing laboratory and practical disciplines. The implementation of innovative complex projects was carried out within the range of disciplines in accordance with the curricula for students of different faculties and universities [1, 2]. Over 9 years implementation integrated design in the series «Innovative research in students' scientific work» of the Bulletin of NTU «KhPI» on innovative issues of projects published more than 40 articles by project leaders and compatible articles with students from different universities, courses and faculties [1 – 3]

### **References:**

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